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SUBSTITUTE ABSTRACT – CLEAN COPY

The invention relates to a G-protein coupled receptor EDG6 and its fragments, variants and mutations as well as its use. The new human EDG6 receptor entails 384 amino-acids with seven transmembrane domains. The receptor possesses a potential N-glycosylation site three possible palmitoylation sites positioned 12 to 15 amino-acids C-terminally from the seventh transmembrane domain as well as four possible C-terminal protein kinase C phosphorylation sites. The invention also relates to the use of the EDG6 receptors, its fragments, variants and mutants and, if applicable, its binding partners for therapeutic methods and treatments.

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